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Notice of Allowability

Application No.	Applicant(s)	Applicant(s)	
09/771,045	DUVICK ET AL.		
Examiner	Art Unit		
Medina A Ibrahim	1638		

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Lila Akrad on 11/26/03.

The application has been amended as follows:

In The Specification:

The continuing data on page 1, second paragraph, of the specification has been replaced with the following:

----This application is a continuation of US application 09/352, 159, filed 07/12/1999, now US PAT 6, 211, 434, which claims benefit to of 60/135, 391, filed 05/21/1999 and 60/092, 936, filed 07/15/1998. This application is also a continuation of 09/352, 168, filed 07/12/1999, now US PAT 6, 211, 435, all of which are hereby incorporated by reference. ----

In The Abstract

The abstract on page 77 has been replaced with the following:

----The present invention provides polynucleotides and related polypeptides of the enzyme APAO isolated from *Exophiala spinfera* and *Rhinocladiella atrovirens*.

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Additionally, the polynucleotides encoding for the APAO enzyme can be used to transform plant cells normally susceptible to Fusarium. Plants can be regenerated from the transformed plant cells----.

In The Claims:

Claim 1 (Currently amended). An isolated polynucleotide [comprising a polynucleotide] encoding a protein having fumonisin degrading activity, said polynucleotide selected from the group consisting of:

- a) a polynucleotide <u>having</u> [comprising] at least 90% sequence identity to <u>the</u> [a] polynucleotide as set forth in SEQ ID NO:35;
- b) a polynucleotide <u>having</u> [comprising] at least 95% sequence identity to <u>the</u> [a] polynucleotide as set forth in SEQ ID NO:35; and
 - c) a polynucleotide complementary to the [a] polynucleotide of a) or b).

Claim 2 (Currently amended). A recombinant expression comprising <u>an isolated</u>
[a] polynucleotide encoding a protein having fumonisin degrading activity, said
polynucleotide selected from the group consisting of:

- a) a polynucleotide <u>having</u> [comprising] at least 90% sequence identity to <u>the</u> [a] polynucleotide as set forth in SEQ ID NO:35;
- b) a polynucleotide <u>having</u> [comprising] at least 95% sequence identity to <u>the</u> [a] polynucleotide as set forth in SEQ ID NO:35; and
 - c) a polynucleotide complementary to the [a] polynucleotide of a) or b).

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Claim 3. (Currently amended). A vector comprising a recombinant expression comprising <u>an isolated</u> [a] polynucleotide encoding a protein having fumonisin degrading activity, said polynucleotide selected from the group consisting of:

- a) a polynucleotide <u>having</u> [comprising] at least 90% sequence identity to <u>the</u> [a] polynucleotide as set forth in SEQ ID NO:35;
- - c) a polynucleotide complementary to the [a] polynucleotide of a) or b).

Claim 4. (Currently amended). A host cell comprising a recombinant expression comprising <u>an isolated</u> [a] polynucleotide encoding a protein having fumonisin degrading activity, said polynucleotide selected from the group consisting of:

- a) a polynucleotide <u>having</u> [comprising] at least 90% sequence identity to <u>the</u> [a] polynucleotide as set forth in SEQ ID NO:35;
- b) a polynucleotide <u>having</u> [comprising] at least 95% sequence identity to <u>the</u> [a] polynucleotide as set forth in SEQ ID NO:35; and
 - c) a polynucleotide complementary to the [a] polynucleotide of a) or b).

Claim 6 (Currently amended). The host cell of Claim 5, wherein the <u>plant</u> cell is <u>from a plant</u> selected from the group consisting of maize, sorghum, wheat, tomato, soybean, alfalfa, sunflower, canola cotton, and rice.

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Claim 7 (Currently amended). A transformed plant comprising <u>an isolated</u> [a] polynucleotide encoding a protein having fumonisin degrading activity, said polynucleotide selected from the group consisting of:

- a) a polynucleotide <u>having</u> [comprising] at least 90% sequence identity to <u>the</u> [a] polynucleotide as set forth in SEQ ID NO:35;
- - c) a polynucleotide complementary to the [a] polynucleotide of a) or b).

Claim 8 (Currently amended). A plant seed comprising <u>an isolated</u> [a] polynucleotide encoding a protein having fumonisin degrading activity, said polynucleotide selected from the group consisting of:

- - c) a polynucleotide complementary to the [a] polynucleotide of a) or b).

Art Unit: 1638

Papers related to this application may be submitted to Technology Sector 1 by facsimile transmission. Papers should be faxed to Crystal Mall 1, Art Unit 1638, using fax number (703) 308-4242. All Technology Sector 1 fax machines are available to receive transmission 24 hrs/day, 7 days/wk. Please note that the faxing of such papers must conform with the Notice published in the Official Gazette, 1096 OG 30 (November 15, 1989).

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Medina A. Ibrahim whose telephone number is (703) 306-5822. The Examiner can normally be reached Monday-Thursday from 8:30AM to 5:30PM and every other Friday from 9:00AM to 5:00PM.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Dr. Amy Nelson, can be reached at (703) 306-3218.

Any inquiry of a general nature or relating to the status of this application should be directed to the receptionist whose telephone number is (703) 308-0196.

11/26/03

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AMY J. NELSON, PH.D SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1600

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